Status of *Clarus* Transition to MADIS

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Three Steps Required to Achieve *Clarus* Transition to MADIS Operations at NWS.

- MADIS transitioned to operations at the National Weather Service (NWS).

- *Clarus* transitioned to MADIS .

- *Clarus* upgrade moved to MADIS operations.

Status of MADIS Transition to NWS

- Funding
    - Transition has been fully funded.
    - Funding for sustainment and improvement is in place through Letter Of Agreement (LOA) between NWS and the office of Oceanic and Atmospheric Research (OAR).
        - NWS responsible for operational funding.
        - OAR responsible for continued research improvements.

- Final Operating Capability at the NWS National Centers for Environmental Prediction (NCEP) Central Operations (NCO).
    - NCO facility located in College Park, MD will host the primary MADIS operational system.
    - NCO facility to be built in Boulder, CO. (Q4FY15) will host the MADIS operational backup system.
    - National Environmental Satellite, Data, and Information Services (NESDIS) National Climate Data Center (NCDC) will house the MADIS archive.
    - Tier 1 and 2 support provided by NCO.
    - Tier 3 support and MADIS enhancements provided by GSD.

MADIS Transition Timeline

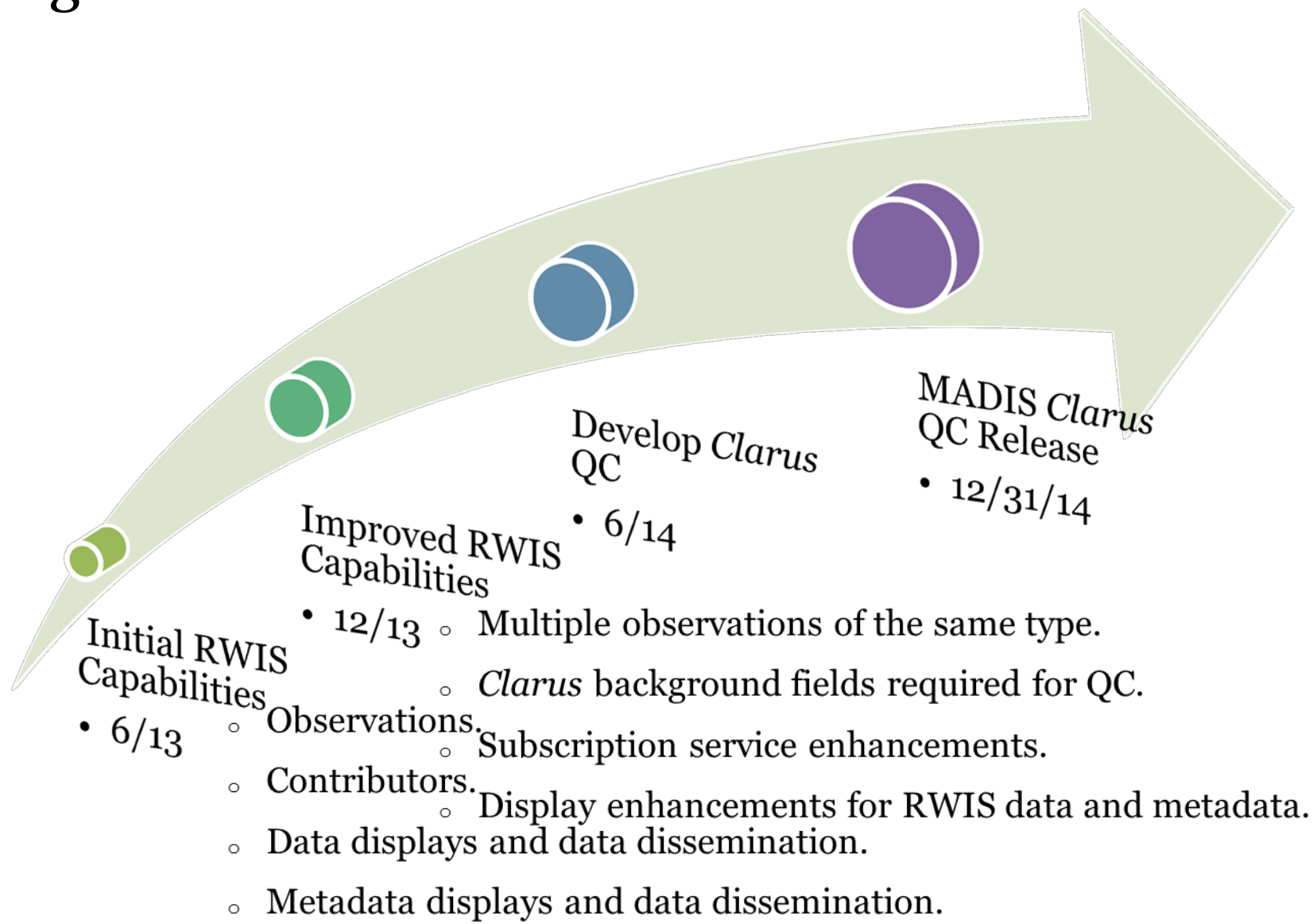Transition Efforts Start Up Again

8/13

FOC Realized
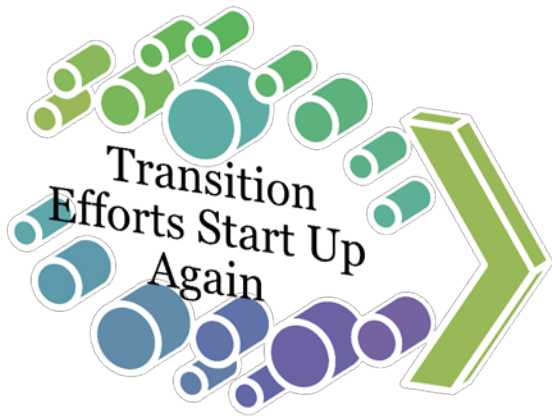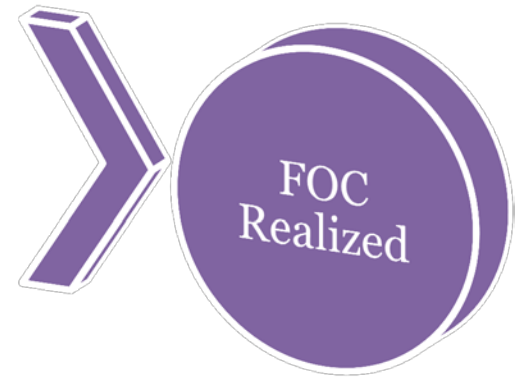
12/31/14

MADIS Transition Status

- Currently on schedule for going live at the NCO College Park facility 1/1/15.
    - MADIS ingest system currently running at NCO and providers being transitioned.
    - MADIS distribution system in the process of being ported to NCO infrastructure and the on-boarding process scheduled to start 8/20/14.
    - MADIS processing system in the process of being ported to the NCO infrastructure and the on-boarding process scheduled to start 9/8/14.
    - MADIS archive data in the process of being moved to the NCDC infrastructure and the on-boarding process scheduled to start 9/15/14.

    On-boarding – Process of moving to NCO operational systems. Systems are run and maintained at NCO.

Original *Clarus* Transition Timeline

MADIS *Clarus* QC Release
- 12/31/14

Develop *Clarus* QC
- 6/14

Improved RWIS Capabilities
- 12/13
  - Multiple observations of the same type.
  - *Clarus* background fields required for QC.
  - Subscription service enhancements.
  - Display enhancements for RWIS data and metadata.

Initial RWIS Capabilities
- 6/13
  - Observations.
  - Contributors.
  - Data displays and data dissemination.
  - Metadata displays and data dissemination.

Current *Clarus* Transition Status

- Observations
  - One observation for all RWIS types available in MADIS (6/15/13).
  - Multiple observations of the same type available (12/15/13).

- 22 RWIS Providers have agreed to be part of the *Clarus* transition

Alaska	McHenry County	New Jersey
Colorado	Michigan	New York State
Connecticut	Missouri	North Dakota
Idaho	Montana	Oregon
Illinois	Nebraska	Vermont
Iowa	Nevada	Wisconsin
Kansas	New Hampshire	Wyoming
Massachusetts		

Current *Clarus* Transition Status

- Original planning for incorporating RWIS Providers into MADIS:
  - Fix differences between *Clarus* and MADIS by 6/15/13.
  - Add new RWIS providers as *Clarus* team makes contact and acquires all needed information.
- Ability to display and disseminate RWIS data:
  - Ability to display one variable for each RWIS observation type (6/15/13).
  - Ability to disseminate one variable for each RWIS observation type, using the current MADIS subscription service capabilities (12/15/13).
  - Ability to display and disseminate multiple observations of the same type (12/15/13).

Current Display Capabilities

Current *Clarus* Transition Status

- Metadata Displays and Dissemination:
  - Ability to display RWIS contributor metadata (6/15/13).
  - Ability to disseminate RWIS contributor metadata (6/15/13).
- *Clarus* QC implemented in MADIS.
  - *Clarus* QC algorithms implemented in MADIS (12/31/14).
  - Ability to display and disseminate *Clarus* QC results (12/31/14).

Current *Clarus* Transition Timeline

Reengage in Transition Efforts
- 10/14

Dissemination Improvements
- 12/14

Develop *Clarus* QC
- 1/15

On-board MADIS *Clarus* Release
- 9/15
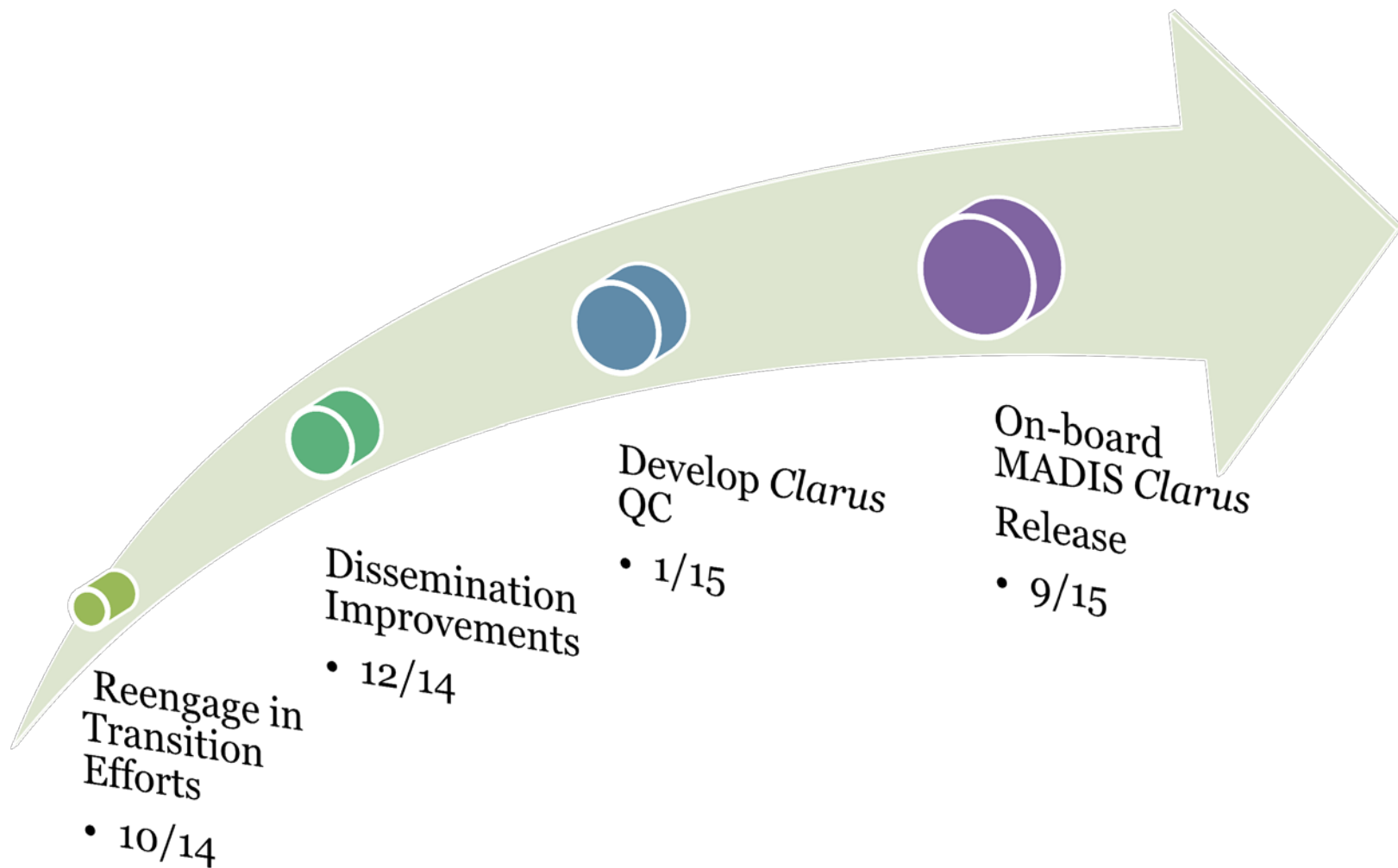
Questions

Clarus MADIS Transition Handout

- Start by sending an email to:
  - Paul Pisano - paul.pisano@dot.gov
  - Brenda Boyce - boyce_brenda@bah.com
- Sign up for MADIS subscription service, for downloading data:
  - http://www.esrl.noaa.gov/gsd/isb/dads/developmentefforts/RWISSignUp.html
- Work with *Clarus* & MADIS teams to ingest RWIS data and metadata to MADIS.
  - Comments, Questions, Concerns:
    - madis-support@noaa.gov
- Monitor progress at MADIS *Clarus* Transition page:
  - http://www.esrl.noaa.gov/gsd/isb/dads/developmentefforts/clarus.html
- Verify your data & metadata:
  - MADIS providers, variables, QC information:
    - http://madis.noaa.gov/
  - Data & Metadata display through the MADIS Surface Display:
    - https://madis-data.noaa.gov/MadisSurface/
  - Data availability for subscription & download through the MADIS Surface viewer:
    - https://madis-data.noaa.gov/public/sfcdumpguest.html